

WHAT IS CLAIMED IS:

1. A device for non-selective identification in a communications network comprising several users, the data being exchanged in the form of frames, wherein:
 - 5 • at least each user has a data processor responsible for the management of the voice, data and video services,
 - a user who is a master or group leader is equipped with a radio terminal, one or more directional antennas and a processor activated in "master" mode,
 - 10 • several users U_i are each equipped with a radio terminal, one or more directional antennas and a processor placed in "slave" mode,
 - a data frame comprises a "non-selective" identification device comprising at least one first part reserved for interrogation by one of the users and a second part enabling users concerned by the response to respond.
2. A device according to claim 1, wherein the user's processor in slave mode comprises, for example, a random or pseudo-random selection algorithm.
3. A device according to one of the claims 1 to 2, wherein the radio access protocol in the communications network may be any protocol whatsoever.
- 20 4. A device according to claim 1, wherein a user is equipped with one or more directional antennas, positioned either on the torso or the user's clothing and integral with the direction of the torso, or on the arm or on a pack that has a handle and is pointed in the direction that is to be exposed.
5. A device according to claim 1, wherein the users are equipped with a
25 power limiter.
6. A device according to claim 5, comprising means adapted to adjusting the power sent out by the interrogator.
7. A use of a device according to claim 1 in a communications network where at least one data frame in the TDMA format, the « non-selective »
30 identification device being positioned between the packets of the uplink channel and the RCH access channel.

8. A method of "non-selective" use in a communications network comprising several users, the exchanged data taking the form of a frame, wherein the method comprises at least the following steps:
 - designating a "group leader" user,
 - 5 • designating at least one user who is an interrogator or is authorized to interrogate in one or more frames in a given direction (directional antenna),
 - synchronizing the "interrogating" user with the start of the interrogation phase in the frame,
 - 10 • making use, if necessary according to the concerned mode, of a random or pseudo-random selection algorithm to compute the instant of response from the non-interrogating users in the frame.
9. A method according to claim 8 wherein, during the passage into the interrogation phase, the terminal of the interrogating user may or may not
15 reduce its power.
10. A method according to claim 9, wherein the power reduction is gradual.
11. A method according to claim 8, wherein there is a mode of interrogation without designation in which all the users receiving the interrogation signal respond to each frame of the interrogation cycle of the same interrogating
20 user.
12. A method according to claim 8 wherein there is a mode of interrogation without designation in which all the users receiving the interrogation signal respond once by giving their identity and then stop responding in the rest of the interrogation cycle of the same interrogating user.
- 25 13. A method according to claim 8, wherein there is a mode of interrogation with designation in which only the user terminal addressed responds if it receives the interrogation signal and communicates its GPS position in the response.
14. A method according to claim 8, wherein there is a mode of interrogation
30 with designation in which only the addressed user terminal responds if it receives the interrogation signal and sends a predefined signal to enable the

interrogator to measure the distance between them and determine the direction in which the terminal addressed is located.

15. A method according to claim 8, wherein there is an interrogation mode with exclusion in which all the users receiving the interrogation signal, except 5 for the excluded terminal, must respond in giving their identity.

16. A method according to claim 8, wherein there is an interrogation mode with relay in which the interrogation is transmitted by a relay terminal, designated in the interrogation signal of the interrogator terminal and in which all the users receiving the interrogation signal from the relay 10 terminal must respond.